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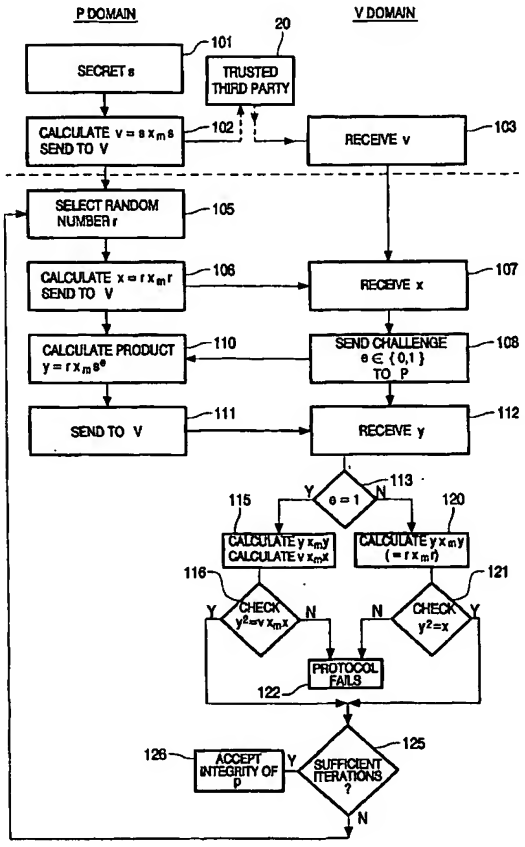
(54) Title: EFFICIENT IMPLEMENTATION OF ZERO KNOWLEDGE PROTOCOLS



(57) Abstract: Zero knowledge protocols, such as the Fiat-Shamir and Guillou-Quisquater protocols are implemented using only Montgomery multiplications on Montgomery representations of numbers to effect a more efficient implementation of the protocols, particularly in devices that have restricted computational resource such as smart cards and other portable electronic devices.

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